

ANL/NDM-150

NEUTRONS AND ANTIMONY NEUTRONIC EVALUATIONS OF ^{121}Sb AND $^{123}\text{Sb}^*$

by

Alan B. Smith and Andreas Fessler

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ABSTRACT

The new experimental results and recent extensive model development discussed in the companion report ANL/NDM-149 [Smi00], the new resonance parameterization of ref. [Mug99] and experimental results and models available in the literature, are used to construct neutronic evaluations for ^{121}Sb and ^{123}Sb in the ENDF/B-6 formats. These are comprehensive evaluations extending from thermal energies to 30 MeV, and include all reactions and processes commonly used in applied neutronic calculations. Comparisons are made with ENDF/B-6 MAT 5125 and 5131 files [ENDF].

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